

## Response to Intervention Summer Institute, 2011

Through inquiry and practical application, we will begin to identify the strategies most likely to be responsive to student needs. Strategies will include use of artifacts, identification of data necessary to develop components of a fluid schedule, and exploration of possibilities that enhance teaching and learning at the elementary level.

## The 3 R's of Scheduling: Rethink, Redesign, and Respond

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Based upon Analyzing Secondary Resources, Marilyn Crawford, PhD  
TimeWise Schools, LC

## Scheduling Workshop

*Through inquiry and practical application, we will begin to ...*

- Work with artifacts
- Gather data necessary to develop components of a fluid schedule
- Focus on process rather than product
- Analyze components of schedules
- Explore possibilities that enhance teaching and learning
- Examine different scheduling strategies implemented by others
- Identify the strategies most likely to be responsive to student needs

- “Teaching is very much a factor of the conditions that enable or disable effective teaching. Context has the greatest power in inhibiting good teaching, or in freeing good teaching. No, context alone does not make a poor teacher better, but context can stop good teachers from doing their best to educate all students.”

*Updraft-Downdraft, pp 14-15<sub>4</sub>*

RETHINK . . .

## Examining Artifacts

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## Artifacts

- Calendar
- Daily Schedule
- Enrollment
- Course Requirements
  - Staffing
  - Achievement
- Policy and Environment

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## Artifacts: Calendar

**How much annual time is available for teaching and learning?**

- Total number student days per year
- Total number early release per year
- Total number of shortened days per year

Calculation

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## Artifacts: Daily Schedule

**How much daily time do you have for teaching and learning, and how is that time organized?**

- School start and end times for teachers
- School start and end times for students
- Bell schedule (number of periods with start and end times) including homeroom, passing times between periods, lunch, recess, and any other scheduled periods of time
- Information on schedule's cycle (Block, 5-day rotation, 6-day rotation, et cetera)
- Class size information; total student contact information

Calculation

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## Artifacts: Enrollment

### What is your student enrollment?

- Total number of students enrolled in school by grade
- Total number/percent students in special education
- Total number/percent students in English as a Second Language
- Percent of students retained by grade level

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## 2010-11 Elementary School Total Enrollment = 414

- Pre K = 63 (3 ECSC)
- K = 35
- 1<sup>st</sup> = 73
- 2<sup>nd</sup> = 61
- 3<sup>rd</sup> = 57
- 4<sup>th</sup> = 82
- 5<sup>th</sup> = 39
- Mild-Mod. = 4

Note: Enrollment includes 7% (about 29) special education students & 14% (about 56) ELL students

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## Artifacts: Course Requirements

- List of required courses per grade level
- 2. Description of Special Programs; such as READ 180 is 90 minutes

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## Artifacts: Staffing

### What is your current staffing pattern?

- Staff roster with every position listed
- Assignment for each person (principal, English teacher, counselor, et cetera)
- Staff assignment for each teacher every period of the day including duties
- Certification and highly qualified information for each staff member

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## Staffing: for example. . .

- **Non-Teaching (8)**
  - 2 Administrator (1P, 1AP)
  - 1 Counselor
  - 1 Curriculum Coach
  - 1 Speech Therapist
  - 1 Title 1 Reading (1st)
  - 1 Read 180 (4-5)
  - 1 Phonics, Writing, Spelling (1<sup>st</sup>)
- **Teaching Elective/Required (3)**
  - 1 PE
  - 1 Art/Music
  - 1 Librarian
- **English Language Learners (1)**
  - 1 ELL
- **Calculations**

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## Artifacts: Policy & Environment

### What external forces influence teaching and learning?

- Union contract specifications and agreements related to allocating time and staff in schools
- Bulletin 741 Suggestions and Regulations
- Any other information essential to understanding pressures and limits
- Cafeteria seating capacity
- Number of current lunch zones/times

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## Artifacts: Achievement

### How well are your students doing?

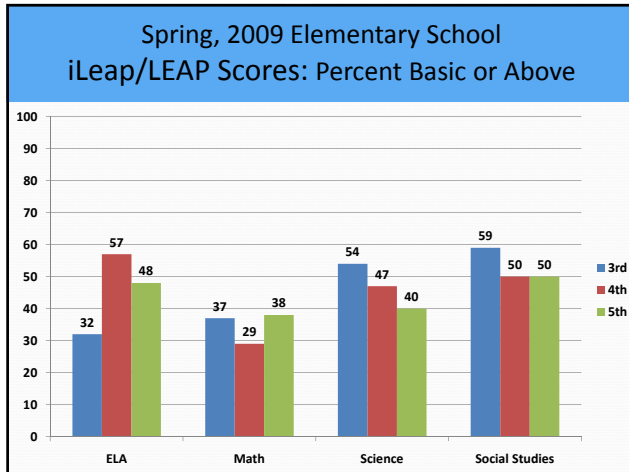
- LEAP SCORES
- iLEAP scores
- Data pertaining to Tier 2 and Tier 3 intervention needs

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## Student Achievement

- Based on the results from the LEAP or iLEAP,

Achievement Levels	English Language Arts		Mathematics		Science		Social Studies	
	#	%	#	%	#	%	#	%
Advanced								
Mastery								
Basic								
Approaching Basic								
Unsatisfactory								



...or, what percent of students are scoring below the Basic Level in each Subject Tested?

	3rd Grade- iLEAP	4th Grade- LEAP	5th Grade- iLEAP
ELA	68	43	52
MATH	63	71	62
SCIENCE	46	53	60
SOCIAL STUDIES	41	50	50

## REDESIGN . . .

### Utilizing Artifact Analyses:

Based on the artifact analysis, what are the conditions that enable or disable teaching and learning in your school?

## Artifacts and Our Students' Needs

- Calendar – Are our annual hours/course sufficient?
- Daily Schedule – Is there any way to increase Total Instructional Time per Day?
- Course Requirements – Are we following *required* or *suggested*?
- Staffing – Are we utilizing our Full Time Employees to address students' needs?
- Policy & Environment – What restrictions/external forces are there?
- Achievement – What degree of intervention and to what percentage of the students do we need?

What is the Relationship  
among  
Time, Personnel, and Infrastructure?

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### 2010-11 Elementary School: Impact of Start & End Times on Instruction

Start Time	# of Teachers	% of Teachers	Minutes Lost per Day	Minutes Lost in 178 Days	7-Hour Days Lost
8:05	3/22	14%	0	0	0
8:09	3/22	14%	4	712	1.7
8:15	15/22	68%	10	1780	4.2
End Time	# of Teachers	% of Teachers	Minutes Lost per Day	Minutes Lost in 178 Days	7-Hour Days Lost
3:00	16/22	73%	0	0	0
2:55	1/22	5%	5	890	2.1
2:50	4/22	18%	10	1780	4.2
2:45	1/22	5%	15	2670	6.4

Note: 1 teacher begins @ 8:00 AM which results in a 5 minute daily gain in instruction ... yearly gain of 890 minutes or 14.8 hours or 2.1 days

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### 2010-11 Elementary School: Impact of 'Fuzzy' Lunch Time on Instruction

Lunch Time	# of Teachers	% of Teachers	Minutes Lost per Day	Minutes Lost in 178 Days	7-Hour Days Lost
25	2/22	9%	0	0	0
30	2/22	9%	5	890	2.1
32	1/22	5%	7	1246	3.0
35	4/22	18%	10	1780	4.2
38	1/22	5%	13	2314	5.5
39	1/22	5%	14	2492	5.9
40	2/22	9%	15	2670	6.4
42	1/22	5%	17	3026	7.2
45	5/22	23%	20	3560	8.5
50	1/22	5%	25	4450	10.6
55	2/22	9%	30	5340	12.7

Note: Some teachers note just lunch, others note lunch and recess, others note lunch, recess, and restroom, as well as other combinations of functional time. <sup>23</sup>

### 2010-11 Elementary School: Impact of Under-Utilized FTE on Time

	Monday	Tuesday	Wednesday	Thursday	Friday
8:15-9:00	Teacher A	Teacher B	Teacher C	135 mins ?	Teacher A/Teacher B / Teacher C
9:00-9:45	Teacher D	Teacher E	Teacher F		Teacher D/Teacher E / Teacher F
9:45-10:30	Teacher G	Teacher H			Teacher G/Teacher H
10:30-11:15	Teacher I	Teacher J	90 mins ?	Teacher K	Teacher I/Teacher J/Teacher K
11:15-12:15	30 lunch (30 mins ?)	30 lunch (30 mins ?)	30 lunch (30 mins ?)	30 lunch (30 mins ?)	30 lunch (30 mins ?)
12:15-12:45	Teacher L/Teacher M	Teacher N/Teacher O	Teacher N/Teacher O	Teacher L/Teacher M	Teacher L or Teacher M
12:15-1:00					
12:45-1:15	15 mins ?	15 mins ?	15 mins ?	15 mins ?	Teacher O or Teacher N
1:15-1:45	Teacher P	Teacher Q	Teacher R	Teacher S	Teacher R or Teacher S
1:45-2:15	15 mins ?	15 mins ?	15 mins ?	15 mins ?	Teacher Q or Teacher P
2:15-3:00	Prep	Prep	Prep	Prep	Prep

Average Daily Under-Utilized Time = 99 minutes/day...17,622 mins/year... 293.7 hrs/year... 42 days/year

### 2010-11 Elementary School: Impact of Under-Enrollment on FTE

	Monday	Tuesday	Wednesday	Thursday	Friday
8:15-9:00	Teacher T (21)	Teacher B (23)	Teacher C (21)	135 mins ?	Teacher T/Teacher B / Teacher C (65)
9:00-9:45	Teacher D (21)	Teacher E (23)	Teacher F (23)		Teacher D/Teacher E / Teacher F (67)
9:45-10:30	Teacher G (22)	Teacher H (19)			Teacher G/Teacher H (41)
10:30-11:15	Teacher I (21)	Teacher J (23)	90 mins ?	Taw (19)	Teacher I/Teacher J/Teacher K (63)
11:15-12:15	30 lunch (30 mins ?)	30 lunch (30 mins ?)	30 lunch (30 mins ?)	30 lunch (30 mins ?)	30 lunch (30 mins ?)
12:15-12:45	Teacher L/Teacher M (40)	Teacher N/Teacher O (40)	Teacher N/Teacher O (40)	Teacher L/Teacher M (40)	Teacher L or Teacher M (20)
12:15-1:00					
12:45-1:15					Teacher O or Teacher N (20)
1:15-1:45	15 mins ?	15 mins ?	15 mins ?	15 mins ?	Teacher R or Teacher S (17 or 18)
1:15-2:00	Teacher P (17)	Teacher Q (19)	Teacher R (17)	Teacher S (18)	
1:45-2:15	15 mins ?	15 mins ?	15 mins ?	15 mins ?	Teacher Q or Teacher P (17 or 19)
2:15-3:00	Prep	Prep	Prep	Prep	Prep

8 out of 36 periods meet or exceed class cap recommendation of 40:1 = 22% efficiency or 78% of classes are under-enrolled.

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### Elementary School 2010-11

### Time Analysis

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### 2010-11 Elementary School: Time Analysis: Grade 1

Course	Average Mins/Pd	Days/Yr	Mins/Yr	-10% Loss	Adjusted Mins	Hrs/Yr	7-Hour Days/Yr	Approx. % Instruct
ELA	145	178	25810	2581	23299	387	55	49.2%
Math	60	178	10680	1068	9612	160	22.8	20.3%
Social Living	45	178	8010	801	7209	120	17.2	15.2%
Enrichments	45	178	8010	801	7209	120	17.2	15.2%
TOTAL INSTRUCTIONAL TIME	295 Minutes							

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### 2010-11 Elementary School: Time Analysis: Grade 2

Course	Average Mins/Pd	Days/Yr	Mins/Yr	-10% Loss	Adjusted Mins	Hrs/Yr	7-Hour Days/Yr	Approx. % Instruct
ELA	215	178	38270	3827	34443	57405	82	58.9%
Math	60	178	10680	1068	9612	160.2	22.9	18.9%
Social Living	45	178	8010	801	7209	120.2	17.2	12.3%
Enrichment	45	178	8010	801	7209	120.2	17.2	12.3%
TOTAL INSTRUCTIONAL TIME	365 Minutes							

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**2010-11 Elementary School:  
Time Analysis: Grade 3**

Course	Average Mins/Pd	Days/Yr	Mins/Yr	- 10% Loss	Adjusted Mins	Hrs/Yr	7-Hour Days/Yr	Approx. % Instruct
ELA	140	178	24920	2492	22428	373.8	53.4	47.3%
Math	60	178	10680	1068	9612	160.2	22.8	20.2%
Sci/SS	51	178	9078	908	8170	136.2	19.5	17.2%
Enrichment	45	178	8010	801	7209	120.2	17.2	15.2%
<b>TOTAL INSTRUCTIONAL TIME</b>	296 Minutes							

**2010-11 Elementary School:  
Time Analysis: Grade 4**

Course	Average Mins/Pd	Days/Yr	Mins/Yr	- 10% Loss	Adjusted Mins	Hrs/Yr	7 Hour Days/Yr	Approx. % Instruct
ELA	172	178	30616	3062	27554	459.2	65.6	46.9%
Math	60	178	10680	1068	9612	160.2	22.8	16.3%
Social Studies	45	178	8010	801	7209	120.2	17.2	12.3%
Science	45	178	8010	801	7209	120.2	17.2	12.3%
Enrichment	45	178	8010	801	7209	120.2	17.2	12.3%
<b>TOTAL INSTRUCTIONAL TIME</b>	367 Minutes							

**2010-11 Elementary School:  
Time Analysis: Grade 5**

Course	Average Mins/Pd	Days/Yr	Mins/Yr	- 10% Loss	Adjusted Mins	Hrs/Yr	7 Hour Days/Yr	Approx. % Instruct
ELA	180	178	32040	3204	28836	480.6	68.6	50%
Math	45	178	8010	801	7209	120.2	17.2	12.5%
Social Studies	45	178	8010	801	7209	120.2	17.2	12.5%
Science	45	178	8010	801	7209	120.2	17.2	12.5%
Enrichment	45	178	8010	801	7209	120.2	17.2	12.5%
<b>TOTAL INSTRUCTIONAL TIME</b>	360 Minutes							

**2010-11 Elementary School:  
4<sup>th</sup> Grade School Experience/Year...**

Where has the time gone?

- 65.6 school days of ELA (includes writing)
- 22.8 school days of Math
- 17.2 school days of Science
- 17.2 school days of Social Studies
- 17.2 school days of electives
- 12.7 school days of lunch (at 30 mins.)
- 6.3 school days of recess (at 15 mins.)
- 4.2 school days of homeroom (8:05-8:15)
- 17.0 school days of exchange classes



### 2010-11 Elementary School: School's Quality of Time

- **Run-Time:** Classroom teacher controlled
- **Flexibility:** One teacher, one class
- **Collective Response Capacity:** None

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### The Bottom Line



**Learning is a function of time.  
Not enough time? Not enough achievement.**

(Source: Dr. Marilyn Crawford-Context Counts;2004)

RESPOND . . .

Using the Artifacts and the Analyses,  
what strategies can we apply to  
create a more responsive schedule?

### 2010-11 Elementary School

Introduction  
To A Few  
Scheduling Strategies

Natural Alignment of Courses +  
Power of Two = Flexible Scheduling

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### 2010-11 Elementary School: Natural Alignment of Courses

ELA	SS
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Math	Science
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There are courses of study that are naturally aligned making back-to-back scheduling the most sensible for teachers and students. For example, ELA is to SS as Math is to Science.

### 2010-11 Elementary School: Power of Two

ELA	SS
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Or

Math	Science
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There is teacher empowerment in the power of two...easier integration of subject matter, greater likelihood professional conversations will occur, and opportunity for flexibility... because it only involves two people

### 2010-11 Elementary School: Flexible Scheduling

ELA/SS	A	B
Math/Sci	B	A

**Could be flexed into...**

ELA/SS	A
Math/Sci	B

Collective response capacity occurs as teachers determine the purpose and time for flexing into larger blocks of time. For example, a 60-minute period could become a 120-minute block of intensive learning time.

### 2010-11 Elementary School: Added to the Teaming Concept

ELA/SS	A	B
Math/Sci	B	A
ELA/SS	C	D
Math/Sci	D	C

**Could be flexed into...**

ELA/SS	A
Math/Sci	B
ELA/SS	C
Math/Sci	D

As the level of teacher empowerment builds, the capacity for flexing extends from the power of two to the product of four; with this comes an renewed excitement for innovation based on student needs. In addition to large blocks of time, students can be grouped and regrouped throughout the year according to their needs at that particular time.

### 2010-11 Elementary School: How Good can it Get?

- Day 1 of School Year...(based on a 4 FTE teaching team @ 1:25)
  - Principal hands you a schedule that designates lunch slots and elective classes
  - Principal hands you a list of 100 students
  - Counselor hands you a packet containing data pertaining to the 100 students on your team
  - In-service is spent unpacking the data and getting to know your students
    - Designing the team's schedule
- For the next 177 days it is all about student needs, flexibility, accountability, and building a professional community devoted to meeting those needs

### Bulletin 741: Elementary School (Pre-K & K) Suggested Minimum Time

Activities	Pre-Kindergarten	Minute Translation	Kindergarten	Minute Translation
Teacher Directed activities (whole and small group) (K=indoor & outdoor)	25%-35% (includes transition time)	104 - 145	40%	166
Student-initiated activities (learning center) (K=indoor & outdoor)	35%-45%	145 - 187	35%	145
Lunch				
Snack and restroom time	10%	42	10%	42
Rest Period	20%	83	15%	62
<b>Total</b>		<b>374 - 457</b>		<b>415</b>

\*...suggested minimum time requirements for prekindergarten shall be flexibly scheduled to meet the developmental needs of young students. Because transition times are teacher-directed, they shall be included as teacher-directed activities.\* (similar statements for kindergarten)

(Reference: Bulletin 741 (May, 2011), page 53)

### Bulletin 741: Elementary School (1 - 3) Suggested or Required Minutes/Week

Subject	Suggested or Required Minutes per Week
ELA*	825
MATH	300
SCIENCE AND SOCIAL LIVING	225
Foreign Language**	150
PE Required	150 (30 minutes of organized physical activity daily)
Health, Music, Arts, Crafts**	150

**Notes:**

\* English as a Second Language may be offered as a part of English Language Arts (page 54)

\*\*For students in grades 1 - 4 who have been identified as reading below grade level, the minimum time requirements in health, music, and arts and crafts, are suggested in lieu of required (page 54).

For students with specific needs, teachers may increase the weekly time in English Language Arts or Mathematics by reducing instructional time in other subjects, subject to review and approval of the principal. (page 54)

(Reference: Bulletin 741 (May, 2011), page 54)

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### Bulletin 741: Elementary School (4 - 6) Suggested or Required Minutes/Week

Subject	Suggested or Required Minutes per Week
ELA*	600
MATH	300
SOCIAL STUDIES	225
SCIENCE	225
Foreign Language**	150 (30 minutes daily)
PE Required	150 (30 minutes of organized physical activity daily)
Health, Music, Arts, Crafts**	150

**Notes:**

\* English as a Second Language may be offered as a part of English Language Arts (page 54)

\*\*For students in grades 1 - 4 who have been identified as reading below grade level, the minimum time requirements in health, music, arts, crafts, or electives are suggested in lieu of required.

\*\*For students in grades 5 - 8 who have scored below the basic level on Leap 21 in ELA or MATH, the minimum time requirements in health, music, arts and crafts, or electives are suggested in lieu of required.

(Reference: Bulletin 741 (May, 2011), page 54)

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2010-11 Elementary School

# Scenario 1

Adopt a varying period schedule with a focus on increasing collective response through common prep time, job-embedded professional development, and literacy/numeracy interventions.

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2010-11 Elementary School

# Scenario 1

Create 3 Small Learning Communities

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## 2010-11 Elementary School Scenario 1: SLC Configuration

SLC #1 = 171 Students	
<b>Team</b> PreK + ECSE + K = 98	<b>Team</b> 1 <sup>st</sup> = 73
SLC #2 = 122 Students	
<b>Team</b> 2 <sup>nd</sup> = 61	<b>Team</b> 3 <sup>rd</sup> + Mild-Mod = 61
SLC #3 = 121 Students	
<b>Teams</b> 4 <sup>th</sup> = 41 4 <sup>th</sup> = 41	<b>Team</b> 5 <sup>th</sup> = 39

## 2010-11 Elementary School Scenario 1: Small Learning Communities

SLC	Current Enrollment	Core FTEs Needed
<b>SLC 1:</b> Pre-K + K + ECSE + 1 <sup>st</sup>	<b>171 Students</b> (Pre-K = 60, K = 35, ECSE = 3, 1 <sup>st</sup> = 73)	<b>13 FTEs + 5 Para</b> (Pre-K=3 + 3 Para, K=4, ECSE=1 + 1 Para, 1 <sup>st</sup> =4 + 1 K-1 Para + SpEd R&I = 1)
<b>SLC 2:</b> 2 <sup>nd</sup> + 3 <sup>rd</sup> + Mild-Mod	<b>122 Students</b> (2 <sup>nd</sup> = 61, 3 <sup>rd</sup> = 57, Mild-Mod = 4)	<b>8 FTEs + 4 Para</b> (2 <sup>nd</sup> = 3, 3 <sup>rd</sup> = 3, Mild-Mod = 1 + 2 Para, SpEd R&I=1 + 1 Para, 1 2 <sup>nd</sup> /3 <sup>rd</sup> Para)
<b>SLC 3:</b> 4 <sup>th</sup> + 5 <sup>th</sup>	<b>121 Students</b> (4 <sup>th</sup> = 82, 5 <sup>th</sup> = 39)	<b>7 FTEs + 1 Para</b> (4 <sup>th</sup> =4, 5 <sup>th</sup> =2 & SpEd R&I=1 + 1 Para)

2010-11 Elementary School - Scenario 1: Overall Distribution of 40.0 FTEs (excludes Para-Professionals in FTE count)			
Designation	FTEs	Scenario 1	Notes
Non-Teaching (1 Principal, 1 Assist Principal, 1 Title I (Reading 1st), 1 Read 180 (4-5), 1 Counselor, 1 ELA skill, 1 Curriculum Coach, 1 Speech Therapist)	8.0	8.0	Pull-in non-teaching staff for intervention and/or enrichment needs
Core (23 Elementary)	23.0	19.0	Classroom reduction focus
Non-Core/Enrichment (1 PE, 1 Art/Music, 1 Librarian)	3.0	2.0	Maximize class sizes @ 40:1 (PE/Music)
Special Education (1 ECSE, 1 Mild-Moderate, 3 Resource / Inclusion)	5.0	5.0 (1 R&I FTE per SLC)	Attached to SLCs
ELL	1.0	1.0	Services 3 SLCs
Para-Professionals (3 SpEd Self-Contained, 2 SpEd R&I, 3 Pre-K, 1 (K-1), 1 (2-3), 1 GASP, 1 ELL)	12.0	12.0	6 Para can do interventions

2010-11 Elementary School

# Strategy

By strategically scheduling enrichments, a 90-minute block is available for extensive time in intervention for literacy and numeracy in grades 1 through 5.

2010-11 Elementary School Scenario #1: Master Schedule											
PreK-K	8:05-9:35 90 mins		9:35-10:05 30 mins		10:05-10:50 45 mins		10:50-11:15 25 mins		11:15-3:00 225 mins		
	Teacher Directed activities (whole and small group) (K=indoor & outdoor)		PE		As per Bulletin 741		Lunch		Teacher Directed activities (whole and small group) (K=indoor & outdoor). Student Initiated Activities (learning centers) (K=indoor & outdoor). Snacks and rest.		
1st	8:05-10:50 165 mins		10:50-11:15 25 mins		11:15-12:15 60 mins		12:15-12:45 30 mins		1:30-3:00 90 mins		
	ELA		Lunch		Math		PE		Social Living		
2nd	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-11:30 135 mins		11:30-11:50 20 mins		11:50-12:15 25 mins		
	ELA		PE		ELA		Lunch		Intervention/Enrichments		
3rd	8:05-10:20 135 mins		10:20-10:50 30 mins		10:50-11:20 30 mins		11:20-11:50 30 mins		11:50-12:15 25 mins		
	ELA		PE		ELA		Lunch		Enrichment/Intervention		
4th	8:05-9:35 90 mins		9:35-10:20 45 mins		10:20-11:20 60 mins		11:20-11:50 30 mins		11:50-12:15 25 mins		
	Math		Music/Art		Science		Library		ELA		
5th	8:05-10:05 120 mins		10:05-10:50 45 mins		10:50-11:20 30 mins		11:20-11:50 30 mins		11:50-12:15 25 mins		
	ELA		Soc St.		Music/Art		PE		Library		
6th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
7th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
8th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
9th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
10th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
11th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
12th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		

2010-11 Elementary School – Scenario #1: Small Learning Community #1											
PreK-K	8:05-9:35 90 mins		9:35-10:05 30 mins		10:05-10:50 45 mins		10:50-11:15 25 mins		11:15-3:00 225 mins		
	Teacher Directed activities (whole and small group) (K=indoor & outdoor)		PE		As per Bulletin 741		Lunch		Teacher Directed activities (whole and small group) (K=indoor & outdoor). Student Initiated Activities (learning centers) (K=indoor & outdoor). Snacks and rest.		
1st	8:05-10:50 165 mins		10:50-11:15 25 mins		11:15-12:15 60 mins		12:15-12:45 30 mins		12:45-1:30 45 mins		
	ELA		Lunch		Math		PE		Social Living		
2nd	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-11:30 135 mins		11:30-11:50 20 mins		11:50-12:15 25 mins		
	ELA		PE		ELA		Lunch		Intervention/Enrichments		
3rd	8:05-10:20 135 mins		10:20-10:50 30 mins		10:50-11:20 30 mins		11:20-11:50 30 mins		11:50-12:15 25 mins		
	ELA		PE		ELA		Lunch		Enrichment/Intervention		
4th	8:05-9:35 90 mins		9:35-10:20 45 mins		10:20-11:20 60 mins		11:20-11:50 30 mins		11:50-12:15 25 mins		
	Math		Music/Art		Science		Library		ELA		
5th	8:05-10:05 120 mins		10:05-10:50 45 mins		10:50-11:20 30 mins		11:20-11:50 30 mins		11:50-12:15 25 mins		
	ELA		Soc St.		Music/Art		PE		Library		
6th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
7th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
8th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
9th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
10th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
11th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		
12th	8:05-8:35 30 mins		8:35-9:05 30 mins		9:05-9:35 30 mins		9:35-10:20 45 mins		10:20-11:50 90 mins		
	PE		Music/Art		Library		Science		Math		

Pre-K and K  
•Teacher Directed activities; Student Initiated Activities; Snacks and Rest as per Bulletin 741.

1st Grade  
•Instructional time meets the suggested minimum time as per Bulletin 741, and affords the opportunity for 90 minutes for Enrichment/Intervention:  
•For those students who are on grade level, time may be used to enrich or advance.  
•For those in need of intervention in literacy and/or mathematics, ample time is provided daily.

2010-11 Elementary School – Scenario #1: Small Learning Community #2									
2 <sup>nd</sup> 21:1 & 3 FTE	8:05-8:35	8:35-9:05	9:05-11:20			11:20	11:45-1:15	1:15-2:00	2:00-3:00
	30 mins	30 mins	135 mins			25 mins	90 mins	45 mins	60 mins
	ELA	PE	ELA			Lunch	Intervention/Enrichments	Soc Living	Math
3 <sup>rd</sup> 19:1 & 3 FTE	8:05-10:20		10:20-10:50	10:50-11:20	11:20	11:45-1:15	1:15-2:15	2:15-3:00	
	135 mins		30 mins	30 mins	25 mins	90 mins	60 mins	45 mins	
	ELA		PE	ELA	Lunch	Enrichment/Intervention	Math	Soc Living	

Grade 2 and 3:

- Instructional Time meets Bulletin 741 suggested minimum time, and 90 minute block of time is provided for intervention in literacy and/or math. If student is on grade level, he/she could be assigned enrichment classes (30 minute each) during this time.

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2010-11 Elementary School

## Strategy

Creating dyads in grades 4 and 5 with flexible run times, promotes integration of naturally aligned courses, and increases teachers collective response capacity.

54

2010-11 Elementary School – Scenario #1: Small Learning Community #3									
4 <sup>th</sup> 21:1 & 4 FTE	8:05-9:35	9:35-10:20	10:20-10:50	10:50-11:20	11:20-11:50	11:50-12:15	12:15-2:15	2:15-3:00	
	90	45 mins	30	30	30	5 mins	120 mins	45 mins	
	Math	Science	Music	PE	Fine Arts	Lunch	ELA	Soc St.	
5 <sup>th</sup> 20:1 & 2 FTE	8:05-10:05	10:05-10:50	10:50-11:20	11:20-11:50	11:50-12:15	12:15-12:45	12:45-2:15	2:15-3:00	
	120 mins	45 mins	30	30	25 mins	30	90	45 mins	
	ELA	Soc St.	Music	PE	Lunch	Fine Arts	Math	Science	

Flexible Run Time Natural Alignment of Courses

90 Minutes for Interventions and/or Enrichments

Mathematics instruction increased by 30 minutes per day, or 89 hours per year.

55

2010-11 Elementary School – Scenario #1: Small Learning Community #3									
5 <sup>th</sup> 20:1 & 2 FTE	8:05-8:35	8:35-9:05	9:05-9:35	9:35-10:20	10:20-11:50	11:50-12:15	12:15-2:15	2:15-3:00	
	30	30	30	45 mins	90	25 mins	120 mins	45 mins	
	PE	Music	Fine Arts	Science	Math	Lunch	ELA	Soc St.	
4 <sup>th</sup> 21:1 & 4 FTE	8:05-8:35	8:35-9:05	9:05-9:35	9:35-10:20	10:20-11:50	11:50-12:15	12:15-12:45	2:15-3:00	
	30	30	30	45 mins	90 mins	25 mins	90	45 mins	
	PE	Music	Fine Arts	Soc St.	ELA	Lunch	Math	Science	

90 Minutes for Interventions and/or Enrichments

Mathematics instruction extended by 30 minutes/day or 89 hours/year

Flexible Run Time Natural Alignment of Courses

56

## 2010-11 Elementary School

# Strategy

By pulling-in under-utilized and non-teaching staff, small class sizes can be achieved for interventions in Literacy and Numeracy.

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## 2010-11 Elementary School – Scenario #1: Intervention/Enrichment Schedule PreK/K/ECSE

PreK 20:1 & 3 FTE + K 9:1 & 4 FTE + ECSE 3:1 & 1 FTE	8:05-9:35 90 mins	9:35-10:05 30 mins	10:05-10:50 45 mins	10:50 25 mins	11:15-3:00 225 mins
	As per Bulletin 741	PE (98)	As per Bulletin 741	Lunch (98)	As per Bulletin 741
2 FTE w/ PE; 4 FTE @ Lunch				4 FTE on Lunch Duty; 2 FTE @ Lunch	
<div>"Pull-in"</div> <div>Assistant Principal</div> <div>Library</div> <div>Speech</div> <div>Read 180</div> <div>PE/Health</div>				1:30-2:00	2:00-2:30
				60 Minute Common Prep (M-TH)	
				PreK (20:1)	PreK (20:1)
				K (18:1)	K (18:1)
				PreK (20:1)	PreK (20:1)
				K (18:1)	K (18:1)
				PreK (20:1)	PreK (20:1)

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## 2010-11 Elementary School Scenario #1: Intervention/Enrichment Breakdown

	8:05-10:50 165 mins	10:50 25 mins	11:15-12:15 60 mins	12:15- 12:45 30 mins	12:45-1:30 45 mins	1:30-3:00 90 mins
1st	ELA	Lunch	Math	PE	Social Living	Enrichment (55) Intervention (18)
2nd	8:05-8:35 30 mins	8:35-9:05 30 mins	9:05-11:20 135 mins	11:20 25 mins	11:25-11:55 30 mins	1:15-2:00 45 mins
	ELA	PE	ELA	Lunch	Intervention (41) Enrichment (20)	Soc Living Math
3rd	8:05-10:20 135 mins	10:20-10:50 30 mins	10:50-11:20 30 mins	11:20 25 mins	11:25-11:55 30 mins	1:15-2:15 60 mins
	ELA	PE	ELA	Lunch	Enrichment (24) Intervention (33)	Math Social Living
4th	8:05-9:35 90 mins	9:35-10:20 45 mins	10:20-10:50 30 mins	10:50-11:20 30 mins	11:20-11:50 30 mins	12:15-2:15 120 mins
	Math	Social Studies	Music/Art	PE	Library	ELA Social Studies
	Enrichment (13) Intervention (13 Lit + 26 M) Read 180 (15)		Lunch			
	9:05-10:05 120 mins	10:05-10:50 45 mins	10:50-11:20 30 mins	11:20-11:50 30 mins	11:50-12:15 25 mins	12:15-2:15 120 mins
	ELA	Social Studies	Music/Art	PE	Library	Math Science
	Enrichment (13) Intervention (28 Lit)		Lunch			
5th	8:05-8:35 30 mins	8:35-9:05 30 mins	9:05-9:35 30 mins	9:35-10:20 45 mins	10:20-11:50 90 mins	11:50-12:15 25 mins
	PE	Music/Art	Library	Science	Math	ELA
	Enrichment (0) Intervention (24 Lit + 39 M) Read 180 (15)		Lunch			

## 2010-11 Elementary School Scenario #1: Sample Intervention/Enrichment Schedule Gd 1

Section 7-1: Sample Inventory Enrichment Schedule Gd 1						
1 <sup>st</sup> Gd	8:05-10:50	10:50	11:15-12:15	12:15	12:45-1:30	1:30-3:00
19:1	165 mins	25 mins	60 mins	30 mins	45 mins	90 mins
4 FTE		Lunch (73) + 9 FTE	Math	PE (73) + 1 FTE	Social Living	Enrichment (55) Intervention (18)
ELA						
3 FTE on Lunch Duty; 1 FTE @ Lunch			1 FTE w/ PE; 3 FTE @ Lunch			
FTE		1:30-2:00		2:00-2:30		2:30-3:00
1 <sup>st</sup> Gd	60 minute Common Prep (M-TH)				Math Interv (3:1)	
1 <sup>st</sup> Gd					Math Interv (3:1)	
1 <sup>st</sup> Gd					Enrichment (18:1)	
1 <sup>st</sup> Gd					Enrichment (18:1)	
SpEd Res/Inc					Math Inter (2:1)	
Phonics/Writing/Spell	A (6:1) Lit Interv		A (6:1) Lit Interv		Math Interv (4:1)	
Counselor	E (28:1) Enrich		D (28:1) Enrich			
Music/Art	D (28:1) Enrich		E (28:1) Enrich		ABC (18:1)	
Title 1 (Reading)	B (6:1) Lit Interv		B (6:1) Lit Interv		Math Interv (3:1)	
(K-1) Para	C (6:1) Lit Interv		C (6:1) Lit Interv		Math Interv (2:1)	

2010-11 Elementary School									
Scenario #1: Sample Intervention/Enrichment Schedule Gd 2/3									
2 <sup>nd</sup> 21:1	8:05-8:35 30 mins	8:35-9:05 30 mins	9:05-11:40 135 mins	11:40-11:50 10 mins	11:45-1:15 90 mins	1:15-2:00 45 mins	2:00-3:00 60 mins		
3 <sup>rd</sup> 19:1									
4 <sup>th</sup> 17:1									
5 <sup>th</sup> 15:1									
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2010-11 Elementary School Scenario #1: Job-Embedded PD Schedule					
	Mon	Tues	Wed	Thurs	Fri
SLC 1	60 Min Prep	60 Min Prep	60 Min Prep	60 Min Prep	<b>60 Min PD</b>
SLC 2	60 Min Prep	60 Min Prep	60 Min Prep	60 Min Prep	<b>60 Min PD</b>
SLC 3	60 Min Prep	60 Min Prep	60 Min Prep	60 Min Prep	<b>60 Min PD</b>
Others	60 Min Prep	60 Min Prep	<b>60 Min PD</b>	60 Min Prep	60 Min Prep

2010-11 Elementary School – Scenario 1: A Few Advantages
<ul style="list-style-type: none"> <li>The schedule is divided into 3 communities: Pre-K/K/1<sup>st</sup>, 2<sup>nd</sup>/ 3<sup>rd</sup>, and 4<sup>th</sup>/5<sup>th</sup>.</li> <li><b>Intervention/Elective</b> period of 90 minutes provided grades 1 through 5. 60-90 minutes of the intervention period is external to the team.</li> <li><b>Flexible Run times</b> are at the discretion of the teacher.</li> <li><b>Personalization</b> could easily be achieved through looping within each small community. By teaching the students for 2 consecutive years, teachers can achieve personalization with students and parents.</li> <li><b>Increase in instructional time</b> in mathematics (grades 4 &amp; 5) increased to 90 minutes and overall instructional time increased to about 390 minutes per day.</li> <li><b>Planning time for teachers</b> is 60 minutes/ day for 4 days. The 5<sup>th</sup> day can be used for 60 minutes of Team time or Job-embedded professional development</li> </ul>

2010-11 Elementary School – Scenario 1: A Few Disadvantages
<ul style="list-style-type: none"> <li>Instead of lunches running every 3-5 minutes, three distinct lunch zones have been created with 5 minutes between each. This may require some adjustment dependent upon how quickly the grade can get through the lunch line and eat.</li> <li>The Enrichment/Intervention block of time is 90 minutes. For those who are on grade level, more enrichments either internal to the team or external (additional FTEs) may be needed.</li> <li>4<sup>th</sup> Grade is divided into two teams with a 30-minute enrichment difference requiring one team to split the 90 minute block into a 60-L-30, thus it may be beneficial to place the Read 180 students in two sections on one team that has a 90-minute block.</li> <li>Read 180 students are pulled from all enrichments/electives.</li> </ul>

2010-11 Elementary School – Scenario 1: A Few Consideration
<ul style="list-style-type: none"> <li>The Enrichment/Intervention period should be used to work with students who scored Approaching Basic or Unsatisfactory on the iLeap, Spring 2009.</li> <li>The Enrichment/Intervention period should be conducted by staff external to the team for at least 60 of the 90 minutes. This would provide 60 minutes of planning (4 days) and 60 minutes (once/week) of Team Planning or Job-Embedded Professional Development.</li> <li>The 2 new para-educators could provide the 4<sup>th</sup> Grade with 'push-in' intervention services for an additional hour (12:45 to 1:45) during their ELA and Math Block.</li> </ul>

## •Appendix

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### A Few Strategies used to Improve Response Capacity . . .

- Coaches
- Reading courses
- Double-dose courses
- Freshman seminar/advisory periods
- Common planning time
- Professional development – ongoing & embedded into school day
- Flexible run-times
- Personalization via teams, academies, and/or looping

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### How much **MAXIMUM** annual time per course do you have at your school?

For example...

Annual Minutes (45 Minutes) (170 Days)	Annual Hours (Divide Annual Minutes by 60)	Annual School Days (6.5-hour days)	Annual Work Days (8-hour days)
7650 mins.	127.5 hrs.	19.6 days	15.9 days

71

### How much **ACTUAL** annual time per course do you have at your school?

For example...

Annual Minutes (45 Min.) (170 Days) (less 20%)	Annual Hours (Divide Annual Minutes by 60)	Annual School Days (6.5 hour days)	Annual Work Days (8-hour days)
6120 mins.	102 hrs.	15.7 days	12.75 days

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## One period: Is it enough?

- 45 Minutes/Day
- 170 Days/Year
- 7,650 minutes/Year
- 127.5 Hours/Year
- 19.6 School Days/Year (at 6.5 hrs/day)
  - - 20% Estimated Loss  
(10% School, 10% Class)
- 15.7 Real School Days

(return)

## Example of Time Allocation in an 8 period schedule

- Start: 7:45      End: 3:00
- Total Time: 435 minutes
- 435 - 30 (lunch) = 405
- 405 - 24 (passing) = 381
- 381 - 21 Homeroom & Buses = 360
- Total Instructional Time: 360 minutes
- 360/8 periods = 45 minutes per period

(return)

## 2010-11 Elementary School: Impact of FTEs & Scheduling Options on Class Size

#Students	Maximum # FTE	List of FTE NOT Teaching	Base Class Size		
			9.5 out of 10	7 out of 8	3 out of 4
414	40	Everyone Teaches	10.89	11.83	13.80
414	39	Principal	11.17	12.13	14.15
414	38	Asst Principal	11.47	12.45	14.53
414	37	Guidance Counselor	11.78	12.79	14.92
414	36	Librarian	12.11	13.14	15.33
414	35	Curriculum Coach	12.45	13.52	15.77
414	34	Speech Therapist	12.82	13.92	16.24
414	33	Title 1 Reading Teacher	13.21	14.34	16.73
414	32	Read 180 Teacher	13.62	14.79	17.25
414	31	Phonics, Writing, Spelling	14.06	15.26	17.81
414	30	ELL Teacher	14.53	15.77	18.40
414	29	Special Ed Teacher	15.03	16.32	19.03
414	28	Special Ed Teacher	15.56	16.90	19.71
414	27	Special Ed Teacher	16.14	17.52	20.44
414	26	Special Ed Teacher	16.76	18.20	21.23
414	25	Special Ed Teacher	17.43	18.93	22.08

## 2010-11 Elementary School: Effect of Scheduling Options on Teaching Time

# Students	Class Size	Sections	9.5 out of 10	7 out of 8	3 out of 4
			FTEs Needed	FTEs Needed	FTEs Needed
414	23	18	20.0	20.6	24.0
414	22	19	20.9	21.5	25.1
414	21	20	21.9	22.5	26.3
414	20	21	23.0	23.7	27.6
414	19	22	24.2	24.9	29.1
414	18	23	25.6	26.3	30.7
414	17	24	27.1	27.8	32.5
414	16	26	28.8	29.6	34.5
414	15	28	30.7	31.5	36.8
Percent of Teaching Time			95%	87.5%	75.0%

(return)